

L10 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 12707-58-3 REGISTRY  
CN Ganglioside GD1a (CA INDEX NAME)  
OTHER NAMES:  
CN Ganglioside B1  
CN Ganglioside G3  
CN Ganglioside GII  
CN GD1a  
DR 54952-11-3, 55598-65-7, 59247-12-0, 71537-59-2, 82497-00-5  
MF Unspecified  
CI COM, MAN  
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAPLUS,  
CASREACT, CHEMCATS, CHEMLIST, CSCHEM, EMBASE, IPA, MEDLINE, PROMT,  
TOXCENTER, USPAT2, USPATFULL  
(\*File contains numerically searchable property data)  
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report  
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);  
PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or  
reagent); USES (Uses)  
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical  
study); BIOL (Biological study); PREP (Preparation); USES (Uses)  
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological  
study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU  
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT  
(Reactant or reagent); USES (Uses); NORL (No role in record)  
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical  
study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU  
(Occurrence); PREP (Preparation); PROC (Process); PRP (Properties)

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1436 REFERENCES IN FILE CA (1907 TO DATE)  
26 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
1438 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d ibib abs 11,17,20,31,48

L15 ANSWER 11 OF 51 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2004:825125 CAPLUS  
DOCUMENT NUMBER: 141:320090  
TITLE: Formulation to treat or prevent parasitic infection  
INVENTOR(S): Clandinin, Michael Thomas; Suh, Miyoung; Belosevic, Miodrag  
PATENT ASSIGNEE(S): Mti Meta Tech Inc., Can.  
SOURCE: U.S. Pat. Appl. Publ., 26 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20040198694	A1	20041007	US 2003-404095	20030402
US 6998392	B2	20060214		
CA 2441696	A1	20041002	CA 2003-2441696	20030919
AU 2003248374	A1	20041021	AU 2003-248374	20030925
AU 2003248374	B2	20070726		
CA 2521254	A1	20041014	CA 2004-2521254	20040312
WO 2004087173	A2	20041014	WO 2004-CA375	20040312
WO 2004087173	A3	20041125		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1613332	A2	20060111	EP 2004-719896	20040312
EP 1613332	B1	20070905		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK				
US 20060276430	A1	20061207	US 2004-551789	20040312
AT 372120	T	20070915	AT 2004-719896	20040312
PRIORITY APPLN. INFO.:			US 2003-404095	A 20030402
			WO 2004-CA375	W 20040312

AB The invention provides a formulation for treatment or prevention of a parasitic infection such as a protozoan or helminths infection, for example: Giardia. The formulation comprises at least one ganglioside, which may be selected from the group consisting of: GD3, GM1, GM2, GM3, GD1b, NANA, and sialic acid. The formulation may be used to supplement foods or liqs., for example: infant formula, baby food, baby cereal, juice, dehydrated camping food, or bottled water.

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 17 OF 51 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 2000:471829 CAPLUS  
DOCUMENT NUMBER: 133:59030  
TITLE: Saccharide derivatives  
INVENTOR(S): Hindsgaul, Ole  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Can.  
SOURCE: U.S., 34 pp., Cont.-in-part of U.S. Ser. No. 751,510.  
CODEN: USXXAM

DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 8  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6087339	A	20000711	US 1997-970751	19971114
US 6063769	A	20000516	US 1996-751510	19961115
PRIORITY APPLN. INFO.:			US 1996-30794P	P 19961114
			US 1996-751510	A2 19961115

OTHER SOURCE(S): MARPAT 133:59030

AB Novel amino acid containing saccharide derivs. AYCHR1(CHR3)nCH(R2)XR4 (A = animal saccharide; Y = O, S, SO, SO2; n = 0 or 1; R1-R4 = independently H, alkyl, substituted alkyl, alkenyl, alkaryl, alkoxyalkyl, aryl, cycloalkyl, cycloalkenyl, heteroaryl, heterocyclic, thioalkoxyalkyl, or joined together to form cycloalkyl, cycloalkenyl, heterocyclic; X = O, S, NH) which inhibit binding of toxins, such as heat-labile enterotoxin or cholera toxin, to their receptors either in vitro or in vivo are disclosed. Addnl., disclosed are compds. which inhibit binding of enterovirulent organisms (e.g., bacteria, virus, fungi, and the like), such as Vibrio cholerae and enterotoxigenic strains of Escherichia coli, to their cell surface receptors. Thus,  $\text{N}^{\alpha}\text{-[3-(1-thio-}\beta\text{-L-fucopyranosyl)cyclohept-1-yl]glycine}$  was prepared and inhibited binding of cholera toxin to ganglioside GD1b by at least 20%.

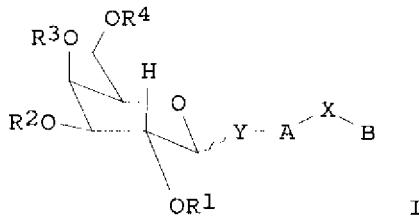
REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 20 OF 51 CAPLUS COPYRIGHT 2009 ACS on STN  
ACCESSION NUMBER: 1999:487101 CAPLUS  
DOCUMENT NUMBER: 131:102499  
TITLE: Preparation of thio galactosides as toxin inhibitor bactericides, virucides, and fungicides  
INVENTOR(S): Hindsgaul, Ole  
PATENT ASSIGNEE(S): Synsorb Biotech, Inc., Can.  
SOURCE: U.S., 23 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 8  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5932554	A	19990803	US 1997-970749	19971114
US 6063769	A	20000516	US 1996-751510	19961115
ZA 9803700	A	19981124	ZA 1998-3700	19980430
PRIORITY APPLN. INFO.:			US 1996-30794P	P 19961114
			US 1996-751510	A2 19961115
			US 1997-970749	A 19971114

OTHER SOURCE(S): MARPAT 131:102499

GI



AB Galactosides I wherein A is selected from the group consisting of arylene, cycloalkylene, cycloalkenylene, heteroarylene and divalent heterocyclic; B is selected from the group consisting of cycloalkyl, cycloalkenyl and heterocyclic; Y is selected from the group consisting of oxygen, sulfur, S(O) and SO; X is selected from the group consisting of oxygen, sulfur, S(O), SO, alkylene, substituted alkylene, and imine, wherein R1-R4 are each independently selected from the group consisting of hydrogen, sulfate; COR, wherein R: is selected from the group consisting of alkyl, alkenyl, alkaryl, alkoxyalkyl, aryl, cycloalkyl, cycloalkenyl, heteroaryl, heterocyclic and thioalkoxyalkyl; and -P(O)(OR5)2, wherein each R5 is independently selected from the group consisting of hydrogen, alkyl, alkenyl, alkaryl, alkoxyalkyl, aryl, cycloalkyl, cycloalkenyl, heteroaryl, heterocyclic and thioalkoxyalkyl, were prepared which inhibit binding of toxins, such as heat-labile enterotoxin or cholera toxin, to their receptors either in vitro or in vivo. Addnl., disclosed are compds. which inhibit binding of enterovirulent organisms (e.g., bacteria, virus, fungi, and the like), such as *Vibrio cholerae* and enterotoxigenic strains of *Escherichia coli*, to their cell surface receptors. Thus, 2,2-dimethyl-4-(cyclobutylamino)cyclopent-1-yl 1-thio- $\beta$ -D-galactopyranoside was prepared. All of the compds. tested inhibited binding of cholera toxin to ganglioside GDb by at least 10%.

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 31 OF 51 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1995:459529 CAPLUS

DOCUMENT NUMBER: 122:205170

ORIGINAL REFERENCE NO.: 122:37209a,37212a

TITLE: Gangliosides for treatment of viral infections and visual disorders

INVENTOR(S): Iosa, Daniel Jesus

PATENT ASSIGNEE(S): Argent.

SOURCE: Belg., 23 pp.

CODEN: BEXXAL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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BE 1006598	A6	19941025	BE 1993-88	19930128

PRIORITY APPLN. INFO.: BE 1993-88 19930128

AB Gangliosides are used for treatment of viral infections and visual disorders, such as optic neuritis. Efficacy of i.m. injections of 40 mg/day of mixed gangliosides for treatment of genital herpes in a subject over 60 days is reported.

L15 ANSWER 48 OF 51 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1983:104858 CAPLUS

DOCUMENT NUMBER: 98:104858  
ORIGINAL REFERENCE NO.: 98:15953a,15956a  
TITLE: Gangliosides, specific receptors for influenza virus  
AUTHOR(S): Bukrinskaya, A. G.; Kornilaeva, G. V.; Vorkunova, N. K.; Timofeeva, N. G.; Shaposhnikova, G. I.; Bergelson, L. G.  
CORPORATE SOURCE: Inst. Virusol., Moscow, USSR  
SOURCE: Voprosy Virusologii (1982), (6), 661-6  
CODEN: VVIRAT; ISSN: 0507-4088  
DOCUMENT TYPE: Journal  
LANGUAGE: Russian  
AB A primary chick fibroblast culture was treated with neuraminidase (to destroy natural receptors), then loaded with gangliosides GD1a and GT1b (from bovine brain), and inoculated with [<sup>3</sup>H]uridine-labeled influenza virus. Both gangliosides restored virus adsorption to the cell surface and enhanced the transfer of viral structures into the cell nuclei. GT1b was more effective than GD1a. GT1b partially restored virus-induced hemolysis of erythrocytes. GT1b may be a specific receptor for influenza virus.

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(FILE 'HOME' ENTERED AT 14:27:09 ON 23 SEP 2009)  
FILE 'INPADOCDB' ENTERED AT 14:27:21 ON 23 SEP 2009  
L1 1 S WO200046379/PN  
FILE 'CAPLUS' ENTERED AT 14:29:58 ON 23 SEP 2009  
L2 1 S L1  
L3 ANALYZE L2 1 RN : 64 TERMS  
SELECT L2 1 RN  
L4 8637 S E1-E64  
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L5 1 S 265330-84-5/RN  
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SET NOTICE LOGIN DISPLAY  
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L6 1 S 189897-44-7/RN  
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SET NOTICE LOGIN DISPLAY  
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L8 1672 S E65-E67  
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L9 1 S 73904-49-1/RN  
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L10 1 S 12707-58-3/RN  
SET NOTICE 1 DISPLAY  
SET NOTICE LOGIN DISPLAY  
FILE 'REGISTRY' ENTERED AT 14:36:52 ON 23 SEP 2009  
L11 1 S 59247-13-1/RN  
SET NOTICE 1 DISPLAY  
SET NOTICE LOGIN DISPLAY

FILE 'CAPLUS' ENTERED AT 14:37:09 ON 23 SEP 2009  
L12 3253 S L8 OR GANGLIOSIDE (W)GD?  
L13 162 S L12(L) (INFECT? OR BACTERI? OR VIR?)  
L14 129 S L13 NOT PY>= 2005  
L15 51 S L13(L) (TREAT? OR INHIBIT? OR REDUC?)